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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Bocket No.		678-1272 (P11009) Chan-Soo HWANG, et al.		
	14-111 11		EV333229029US	

(Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. Mail Stop Patent Application APPLICATION ELEMENTS ADDRESS TO: Commissioner for Patents, P. O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) Specification [Total Pages | 28 Computer Readable Form (CRF) ferred arrangement set forth below, - Descriptive title of the invention Specification Sequence Listing on: - Cross Reference to Related Applications i. CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, i i. 🔲 paper or a computer program listing appendix Statements verifying identity of above copies - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) ACCOMPANYING APPLICATION PARTS - Detailed Description Assignment Papers (cover sheet & document(s)) - Claim(s) 37 CFR 3.73(b) Statement Power of - Abstract of the Disclosure Attorney (when there is an assignee) English Translation Document (if applicable) Drawing(s) (35 U.S.C. 113) [Total Sheets 4. Copies of IDS Information Disclosure [Total Pages 5. Oath or Declaration Citations Statement (IDS)/PTO-1449 Preliminary Amendment Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) 13. Return Receipt Postcard (MPEP 503) 14. V (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) **DELETION OF INVENTOR(S)** Signed statement attached deleting inventor(s) Request and Certification under 35 U.S.C. 122 named in the prior application, see 37 CFR (b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b). or its equivalent. Ck. \$928.00 (filing fee) 6. Application Data Sheet. See 37 CFR 1.76 17. 🗸 Other: Ck. \$40.00 (recording fee) 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.:_ Prior application information: Group Art Unit: Examiner For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Correspondence address below Paul J. Farrell, Esq. Name DILWORTH & BARRESE, LLP 333 Earle Ovington Blvd. Address New York Zip Code 11553 Uniondale State City U.S.A (516) 228-8484 (516) 228-8516 Country Telephone Fax Registration No. (Attorney/Agent) 33,494 Name (Print/Type) February 4, 2004 Signature CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333229029US addressed ip: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria,. VA 22313-1450.

Dated: February 4, 2004

(Name) Douglas M. Owens III

PTO/SB/17 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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FEE	TRA	N	SMI	TTAL
fc	or F	Y 2	004	

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

(\$) 968.00 TOTAL AMOUNT OF PAYMENT

Complete if Known		
Application Number		
Filing Date	concurrent herewith	
First Named Inventor	Chan-Soo HWANG, et al.	
Examiner Name		
Art Unit		
Attorney Docket No	678-1272 (P11009)	_

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)				
Check Credit card Money Other None	3. ADDITIONAL FEES				
Order Large Entity , Small Entity					
Deposit	Fee Fee Fee Fee Fee Description	Fee Paid			
Account Number 04-1121	1051 130 2051 65 Surcharge - late filing fee or oath	T CC T AIG			
Deposit Account Dilworth & Barrese LLP	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet				
Name The Commissioner is sutherized to: (about all that apply)	1053 130 1053 130 Non-English specification				
The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination				
Charge any additional fee(s) during the pendency of this application	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action				
Charge fee(s) indicated below, except for the filing fee	1805 1,840* 1805 1,840* Requesting publication of SIR after				
to the above-identified deposit account.	Examiner action				
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month				
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month				
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month				
Fee Fee Fee Fee Paid Fee Paid Code (\$) Code (\$)	1254 1,480 2254 740 Extension for reply within fourth month	L			
1001 770 2001 385 Utility filing fee 770	1255 2,010 2255 1,005 Extension for reply within fifth month				
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal				
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal				
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing				
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding				
SUBTOTAL (1) (\$) 770.00	1452 110 2452 55 Petition to revive - unavoidable				
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional				
Fee from	1301 1,330 2301 665 Utility issue fee (or reissue)				
Extra Claims below Fee Paid	7				
Indonesidant	1503 640 2503 320 Plant issue fee				
Multiple Dependent	1460 130 1460 130 Petitions to the Commissioner				
	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)				
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806 180 1806 Submission of Information Disclosure Stmt				
Code (\$) Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)	40			
1202	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))				
1203 290 2203 145 Multiple dependent claim, if not paid	1810 770 2810 385 For each additional invention to be				
1204 86 2204 43 ** Reissue independent claims over original patent	examined (37 CFR 1.129(b)) 1801 770 2801 385 Request for Continued Examination (RCE)				
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application				
150.00	Other fee (specify)				
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.0	00			

SUBMITTED BY			(Complete (if applicable)	
Name (Print/Type)	Pay J. Hatron	Registration No. (Attorney/Agent) 33,494	• Telephone	(516) 228-8484
Signature	Kan Flance		Date	February 4, 2004

CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333229029US addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 450, Alexandria, VA 22313-1450.

Dated: February 4, 2004

Atty. Docket No. <u>678-1272</u> (P11009)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

UTILITY APPLICATION DATA SHEET UNDER 37 C.F.R. §1.76

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Sir:					
Transmitted	herewith for filing is the patent application of				
Inventor(s):	ventor(s): Chan-Soo HWANG, Seung-Hoon NAM, Jae-Hak CHUNG and Yung-Soo KIM				
For:	APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING DIFFERENTIAL STBC USING CHANNEL POWER				
Enclosed are	e:				
[X] <u>19</u>	page(s) of specification				
[X] <u>1</u>	page(s) of Abstract				
[X] <u>8</u>	page(s) of claims				
[X] <u>8</u>	sheets of drawings [X] formal [] informal				
[X] <u>2</u>	page(s) of Declaration and Power of Attorney				
ASSIGNEE ASSIGNEE	NAME: SAMSUNG ELECTRONICS CO., LTD. RESIDENCE: GYEONGGI-DO, REPUBLIC OF KOREA				
CERTIFICATION UNDER 37 C.F.R. § 1.10					
I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service					
on this date February 4, 2004, in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333229029US addressed to: Mail Stop Patent					
Application, Commission	oner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450				
	Douglas M. Owens III				

[]	This application claims the benefit under 35 U.S.C. §119(e) Provisional Application(s) No(s).:			
	APPLICATION NO(S)	.:	FILING DATE	
[X]	Certified copy of applie	cation		
Cour	ntry	Appln. No.	<u>Filed</u>	
REP	UBLIC OF KOREA	26265/2003	APRIL 25, 2003	
from [X]	which priority under Title is enclosed. will follow.	e 35 United States Co	ode, § 119 is claimed	

CALCULATION OF UTILITY APPLICATION FEE

For	Number Filed	Number Extra	Rate	Basic Fee \$770.00
TOTAL CLAIMS	24	4	x 18 =	\$ 72.00
INDEPENDENT CLAIMS	4	1	x 86 =	\$ 86.00
[] Multiple Dep. Claim	0	0	290	\$.00
		TOTAL \$928.00		

[] Verified Statement of "Small Entity" Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith <u>\$</u>.

- [X] The amount of \$40.00 for recording the attached Assignment is enclosed as a separate check.
- [X] A Check, in the amount of **\$928.00**, to cover the filing fee is attached.
- [] Charge fee to Deposit Account No. 04-1121. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.
- Please charge any deficiency as well as any other fee(s), which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 04-1121. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 04-1121 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Respectfully submitted,

Date: February 4, 2004

Paul J. Farrell Reg. No. 33,494

Attorney for Applicant(s)

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333 Earle Ovington Blvd. Uniondale, NY 11553 Tel. No. (516) 228-8484 Fax No. (516) 228-8516

PJF/DMO/lah